

# CERN Week Teachers School in Portuguese (Sept.'08, 1-5)

Hours	Saturday	Sunday	Monday, 1	Tuesday, 2	Wednesday, 3	Thursday, 4	Friday, 5	
09h00	Travel Lisbon-Geneva: 1st Group (EasyJet)	Travel Lisbon-Geneva 2nd. Group (EasyJet)	Introduction to CERN	Introduction to Particle Physics (Lesson 2/4)	Introduction to Particle Physics (Lesson 4/4)	Portugal at CERN	Hostel Check-Out	
09h30							The ATLAS Detector and the Portuguese participation in it	
10h00			Introduction to Particle Physics (Lesson 1/4)	Introduction to Particle Physics (Lesson 3/4)	Particle Physics Accelerators	Particle Physics without Accelerators		
10h30			COFFEE BREAK				Guided tour of the Microcosm	
11h00			Basics of Particle Detection	Questions and Answers Session	Particle Physics Spin-offs	Questions and Answers Session		
11h30								
12h00								
12h30	LUNCH CERN							
13h00								
13h30								
14h00		Travel Lisbon-Geneva 3rd. Group (TAP) (9 p., arrival at 19h00)	The CMS Detector and the Portuguese participation in it	Practice Session:		Data Acquisition Systems	Open Questions in Particle Physics and in the Universe	
14h30				Visit PS/AD	Build a Cloud Chamber kit (2h)			
15h00			Visit to the LHC Control Centre	Visit Computer Centre (1h)		Caça ao Tesouro (Visita a Genebra)	Applied Physics with Accelerators (Isolde)	Questionnaires and Evaluation of the Program
15h30				Build a Cloud Chamber kit (2h)	Visit PS/AD		Visit to Isolde	Program END
16h00								
16h30				Revision of the Day	Revision of the Day		Revision of the Day	
17h00								
17h30		Welcome to CERN	Revision of the Day	Revision of the Day	Revision of the Day	Out to Lisbon 2nd Group (EasyJet)		
18h00		Introduction to the Program and Practicalities						
18h30								
19h00		DINNER CERN			DINNER GENEVA	BARBECUE .PT	Out to Lisbon 1st Group (TAP)	

**Themes**

Introduction to the Program  
Introduction to CERN  
Introduction to Particle Physics (and Cosmology)  
Basics of Particle Detection and Measurement  
The ATLAS Detector (w/ Portuguese participation)  
The CMS Detector (w/ Portuguese participation)  
The Portuguese Adventure at CERN  
Data Acquisition Systems  
Particle Physics Accelerators  
Particle Physics Spin-offs (\*)  
Particle Physics without accelerators  
Applied Physics with accelerators  
Open Questions in Particle Physics and in the Universe  
Visit to ATLAS+LHC  
Visit to CMS+LHC  
Questions and Answers Session  
Practice Session (PS/AD - ComputerCentre - Build a CloudChamber)  
Treasure Hunt (in Geneva)  
Visit to Microcosm  
Sessions for the Revision of the Day  
Questionnaires and Evaluation of the Program

Total:

**Lessons (50'+10')**

1  
1  
4  
1  
1  
1  
1  
1  
1  
1  
1  
1  
1  
2  
2  
3  
4  
4  
2  
3  
1  
37

**Scientists**

Mick Storr/Rolf Landua/Pedro Abreu  
Pedro Abreu  
Pedro Abreu  
Ana Henriques  
Amélia Maio  
João Varela  
Gaspar Barreira  
Clara Gaspar  
Luís Peralta  
Luís Peralta  
Sofia Andringa  
Guilherme Correia  
Álvaro De Rújula?  
CERN  
CERN  
Young portuguese researchers at CERN/Mick  
Mick Storr/Rolf Landua  
Mick Storr/Rolf Landua  
Mick Storr/Rolf Landua/Pedro Abreu  
Mick Storr/Rolf Landua/Pedro Abreu  
Mick Storr/Rolf Landua/Pedro Abreu

(\*) Hadron therapies, PET, WWW, GRID, others...